



ELECTRONIC TUBE REFERENCE

7835

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Super-power pulsed transmitting triode with published RF operating ratings, designed for exceptionally high-power pulse service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	3.65 V / 660 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
MAXIMUM PLATE VOLTAGE	65000 V
MAXIMUM PLATE DISSIPATION	300000 W
MAXIMUM CATHODE CURRENT	600 A
<i>Published ratings/characteristics promoted from supplied datasheet.</i>	

The 7835 is a super-power pulsed triode. The supplied datasheet was processed for heater or filament data, maximum ratings, operating characteristics, capacitances where published, and service-specific power or frequency data.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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Published test conditions and operating points. Values on this page are preserved as reported by this source.

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Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Positive-Pulse Plate Voltage	65 kV	Plate-pulsed super-power triode
Maximum Peak Cathode Current	600 A	Plate-pulsed super-power triode
Maximum DC Cathode Current	39 A	Plate-pulsed super-power triode
Average Plate Dissipation	300 kW	Plate-pulsed super-power triode
Typical Peak Positive-Pulse Plate Voltage	60 kV	Plate-pulsed super-power triode
Useful Power Output at Peak of Pulse	10 MW	Plate-pulsed super-power triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-Plate Capacitance	150 pF	Plate-pulsed super-power triode
Grid-to-Cathode Capacitance	1600 pF	Plate-pulsed super-power triode
Plate-to-Cathode Capacitance	1 pF	Plate-pulsed super-power triode
Minimum Filament Heating Time	30 s	Plate-pulsed super-power triode

TUBE TINKER

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and their source documents.

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